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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,971	09/19/2003	Junming Le	0975.1005-036	5342
21005 7590 01/03/2007 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD P.O. BOX 9133 CONCORD, MA 01742-9133			EXAMINER	
			GAMBEL, PHILLIP	
			. ART UNIT	PAPER NUMBER
			1644	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		
	10/665,971	LE ET AL.		
Office Action Summary	Examiner	Art Unit		
	Phillip Gambel	1644		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	·			
Responsive to communication(s) filed on <u>06 Oct</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under Expression is the practice under Expression in the practice under Exp	action is non-final. ace except for formal matters, pro			
Disposition of Claims	•			
4) ⊠ Claim(s) 1-7,15,16 and 18-33 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-7,15,16 and 18-33 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner Priority under 35 U.S.C. § 119	epted or b) objected to by the E frawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
<u> </u>	ndority under 25 LLS C S 110(e)	(d) or (f)		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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DETAILED ACTION

1. Applicant's amendment, filed 10/6/06, has been entered.

Claims 1-7, 15 and 18-19 have been amended. Claims 20-33 have been added. Claims 8-14 and 17 have been canceled.

Claims 1-7, 15-16 and 18-33 are pending.

2. Applicant's election of the species ALS and pain control agent as an additional therapeutic agent in Reply to Election of Species Requirement, filed 10/6/06, is acknowledged.

Claims 1-7, 15-16 and 18-33 are pending and under consideration as they read on the elected invention, given applicant's amended claims, filed 10/2/06.

3. The filing date of the instant claims is deemed as follows.

It appears that the priority of the instant claims may receive a priority date of USSN 08/013,413, filed 2/2/93, as this appears to be the first USSN in the priority chain for the instant application to disclose the treatment of neurodegenerative diseases, including the elected species ALS.

Applicant's assertions concerning priority of the instant application, filed 10/6/06, have been fully considered but are <u>not</u> found convincing essentially for the reasons of record.

Applicant relies upon treating "chronic inflammatory diseases", wherein neurodegenerative diseases are a subset of inflammatory diseases, wherein the proinflammatory cytokine TNF- α is implicated as a significant factor in causing inflammation to support the recitation of the treatment of neurodegenerative diseases, including the elected species ALS, as currently claimed and encompassed by the instant claims.

The instant claims now recite limitations (e.g., "neurodegenerative", as well as the disclose / elected species such as "ALS") which were <u>not</u> clearly disclosed in the priority applications as well as the specification as-filed, and would have changed the scope of the earliest priority applications and did result in filing a continuation-in-part USSN 08/013,413, filed 2/2/93, as this appears to be the first USSN in the priority chain for the instant application to disclose the treatment of neurodegenerative diseases, including the elected species ALS.

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Further, <u>neither</u> the priority applications <u>nor</u> the instant application have provides a sufficient description of a representative number of species to represent the entire genus of "neurodegenerative diseases" as well as the specific recitation of neurodegenerative diseases (e.g. ALS), as currently claimed.

It can<u>not</u> be said that a subgenus is necessarily described by a genus encompassing it and a species upon which it reads. See <u>In re Smith</u> 173 USPQ 679, 683 (CCPA 1972) and MPEP 2163.05.

Therefore, reliance upon the genus of "TNF-α-related human diseases" and the disclosure of "chronic inflammatory diseases" which may involving the pro-inflammatory cytokine TNF does <u>not</u> provide sufficient written description for "neurodegenerative diseases", including the species such as "ALS" back to the earliest priority USSN 07/670,827, filed 3/18/91, as asserted by applicant's claim for benefit of priority of the instant claims.

Also, with respect to <u>claims 31-33</u>, it is noted that "wherein said anti-TNF chimeric antibody comprises a non-human variable region comprising an amino acid sequence selected from the group consisting of SEQ ID NOS: 2, 3, 4 and/or 5" would appear, at best, to receive a priority date back to USSN 08/192,093, filed 2/4/94 (now U.S. Patent No. 6,284,471).

Also, it is noted that claims drawn to "further comprising administering to the human an effective amount of a pain control agent" "wherein the pain control agent is selected from the group consisting of paracentamol and dextropropoxyphene" recited in <u>claims 15-16</u> do <u>not</u> receive an earlier priority date, particularly in light of combination therapy with "inhibiting TNFα in a human patient having a neurodegenerative disease", as broadly claimed currently.

While the limited disclosure on pages 57-63 of the instant specification relating to Therapeutic Methods for Treating TNF-Related Pathologies does not appear to support the combination therapies currently claimed in the context of "inhibiting TNFα in a human patient having a neurodegenerative disease", as generically claimed.

Rather, it appears that the claims as filed have drawn from the specific Examples of treating the specific conditions of rheumatoid arthritis to present combination therapies not supported by the specification as filed.

Applicant's apparent reliance on generic disclosure of treating TNF-Related Pathologies with specific therapies associated with particular combination therapy associated with a single or limited species of diseases, namely rheumatoid arthritis, does not provide sufficient direction and guidance to the "combination therapy in the context of "inhibiting TNF α in a human patient having a neurodegenerative disease", as currently claimed.

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The instant claims now recite limitations which were <u>not</u> clearly disclosed in the priority applications as well as the specification as-filed, and would have changed the scope of the priority applications and do change the scope of the instant disclosure as-filed.

Therefore, this application repeats a substantial portion of prior USSN 09/756,398, filed 1/8/01 and adds and claims additional disclosure not presented in the prior application, as indicated above. Since this application names an inventor or inventors named in the prior application, it may constitute a continuation-in-part of the prior application. Should applicant desire to obtain the benefit of the filing date of the prior application, attention is directed to 35 U.S.C. 120 and 37 CFR 1.78.

In turn, applicant should amend the first line of the specification to indicate the status of the instant application as a continuation-in-part.

Given the number of continuation-in-part applications, applicant is invited to clarify the support under 35 USC 112, first paragraph, for the priority of the instant claims in the lineage of priority documents for establishing the record for clarity.

Applicant is reminded that such priority for the instant limitations requires written description and enablement under 35 U.S.C. § 112, first paragraph.

It is noted that entitlement to a filing date does <u>not</u> extend to subject matter, which is not disclosed, but would be obvious over what is expressly disclosed. <u>Lockwood v. American Airlines Inc.</u>, 41 USPQ2d 1961 (Fed. Cir. 1977).

A claim as a whole has only one effective filing date.

See <u>Studiengelsellschaft Kahle m.b.H. v. Shell Oil Co</u>. 42 USPQ2d 1674, 1677 (Fed. Cir 1997).

Also, applicant is reminded that a species reads on a genus.

If applicant desires priority prior to 2/2/93, applicant is invited to point out and provide documentary support for the priority of the instant claims.

Applicant is reminded that such priority for the instant limitations requires written description and enablement under 35 U.S.C. § 112, first paragraph.

4. This application appears to be compliant with the Sequence Rules.

Applicant is invited to review the instant application to make sure that the appropriate SEQ ID NOS. are provided where required.

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5. The Abstract of the Disclosure is objected to because it does not adequately describe the <u>claimed</u> invention. Correction is required. See MPEP 608.01(b).

6. The application is required to be reviewed and all spelling, TRADEMARKS, and like errors corrected.

Trademarks should be capitalized or accompanied by the ® or ™ symbol wherever they appear and be accompanied by the generic terminology. Although the use of trademarks is permissible in patent applications, the proprietary nature of the trademarks should be respected and every effort made to prevent their use in any manner, which might adversely affect their validity as trademarks.

Appropriate corrections are required

- 7. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

 The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 C.F.R. § 1.75(d)(1) and M.P.E.P. § 608.01(l). Correction of the following is required:

Applicant is requested to identify the written support for the instant claims, particularly the recitation of

"further comprising administering to the human an effective amount of a pain control agent" "wherein the pain control agent is selected from the group consisting of paracentamol and dextropropoxyphene" recited in claims 15-16 in light of combination therapy with "inhibiting TNF α in a human patient having a neurodegenerative disease", as broadly claimed currently.

The only written support for the instant methods accordingly appear to the original filed claims.

Therefore, applicant is required to amend the instant specification to provide proper antecedent basis for the claimed subject matter.

Alternatively, applicant is requested to identify the written support for the instant claims in the specification as-filed.

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9. Claims 1-7, 15-16, 18-33 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention

It is apparent that the A2 antibody is required to practice the claimed invention. As a required element, it must be known and readily available to the public or obtainable by a repeatable method set forth in the specification. If it is not so obtainable or available, the enablement requirements of 35 USC 112, first paragraph, may be satisfied by a deposit of the cell line / hybridoma which produces this antibody. See 37 CFR § 1.801-1.809.

In addition to the conditions under the Budapest Treaty, applicant is required to satisfy that <u>all restrictions imposed by the depositor on the availability to the public of the deposited material will be irrevocably removed upon the granting of a patent in U.S. patent applications.</u>

If the original deposit is made after the effective filing date of an application for patent, the applicant should promptly submit a verified statement from a person in a position to corroborate the fact, and should state, that the biological material which is deposited is a biological material specifically identified in the application as filed, except if the person is an attorney or agent registered to practice before the Office, in which the case the statement need not be verified. See MPEP 1.804(b).

Affidavits and declarations, such as those under 37 C.F.R. §1.131 and 37 C.F.R. § 1.132, filed during prosecution of the parent application do not automatically become a part of this application. Where it is desired to rely on an earlier filed affidavit, the applicant should make the remarks of record in the later application and include a copy of the original affidavit filed in the parent application.

Applicant is required to make the record clear for the Declaration(s) / Statement(s) (e.g. <u>assurances</u>) filed in copending USSNs that provide for the satisfaction with the deposit requirements under 35 USC § 112, first paragraph, for the claimed A2 antibody.

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10. Claims 1-7, 15-16 and 18-33 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention

In vitro and animal model studies have not correlated well with in vivo clinical trial results in patients. Since the therapeutic indices of immunosuppressive drugs can be species- and model-dependent, it is <u>not</u> clear that reliance on the in vitro and in vivo experimental observations of the anti-inflammatory properties of "TNF- α -specific antibodies accurately reflects the relative efficacy of the claimed therapeutic strategy to treat "inhibit the action of TNF for treating neurodegenerative diseases" with TNF- α -specific antibodies.

Pharmaceutical therapies in the absence of in vivo clinical data are unpredictable for the following reasons; (1) the protein may be inactivated before producing an effect, i.e. such as proteolytic degradation, immunological inactivation or due to an inherently short half-life of the protein; (2) the protein may not reach the target area because, i.e. the protein may not be able to cross the mucosa or the protein may be adsorbed by fluids, cells and tissues where the protein has no effect; and (3) other functional properties, known or unknown, may make the protein unsuitable for in vivo therapeutic use, i.e. such as adverse side effects prohibitive to the use of such treatment.

See page 1338, footnote 7 of Ex parte Aggarwal, 23 USPQ2d 1334 (PTO Bd. Pat App. & Inter. 1992).

In addressing New Therapeutic Strategies and Drug Candidates for Neurodegenerative Diseases (Ann. N.Y. Acad. Sci. 1035: 290-315, 2004) (see entire document) Greig et al. notes the following after acknowledging the validity of anti-TNF antibodies, including the instant A2/-cA2-specific antibodies in treating autoimmune / inflammatory disease.

These medications, however, are large macromolecules that minimally traverse administration and have negligible brain penetration – thereby precluding their utility in neurodegenerative disorders.

See entire document, particularly page 304, paragraph 1.

Hays (Current Pharmaceutical Design 4: 335-348, 1998) (see entire document) reviews Therapeutic Approaches to the Treatment of Neuroinflammatory Diseases notes that:

Studies involving interference with $\underline{\mathsf{TNF-}\alpha}$ and its role in neurodegeneration have produced conflicting results, including that given multiple biological activities of certain $\mathsf{TNF-}\alpha$ inhibitors, it is difficult to determine that the protective effects were a result of the $\mathsf{TNF-}\alpha$ mechanism.

See pages 339-340, Tumor Necrosis Factor-α.

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Further, in describing the <u>formidable challenge for halting the progression of neurodegeneration</u>, Hays also notes there are many problems with producing effective drugs, given the plethora of molecular mechanisms in neuroinflammation and the lack of appropriate animal models.

See page 345, Conclusion of Hays.

In reviewing Cytokines Role in Neurodegenerative Events, Viviani et al. (Toxicology Letters 149: 85-89, 2004) (see entire document) notes the <u>controversy associated with the neurotoxic properties of the cytokine TNF- α , including the lack of causing neuronal death in healthy brain / neuronal tissues as well as indications of neuroprotective effects of TNF- α . Here, the various parameters contributing to the circumstances combinatorial effects allowing a single cytokine to transmit diverse signals.</u>

See Contribution of Cytokines of Neurodegeneration and Neurotoxicity, particularly page 86, column 2, paragraph 1.

Similar observations of contrary findings concerning the neurotoxic / neuroprotective properties of TNF- α are acknowledged by Venters et al. (TINS 23: 175-180, 2000) (see entire document), including that :

The exact factors responsible for shifting the roles of TNF-α from neurotoxicity to neuroprotection are not known.

See TNF-α as a Death Signal on pages 175-176, particularly page 176, columns 1-2, overlapping paragraph.

There is insufficient direction and guidance as to how choose which "neurodegenerative diseases" are amenable to treatment with anti-TNF- α antibodies. The claims do not appear to take in account the broad diversity of diseases encompassed and targeted by the claimed invention (e.g. see Claims and page 57 of the instant specification), nor the variability of the neurotoxic and neuroprotective effects of TNF- α in such neurodegenerative diseases or during the course of a particular neurodegenerative disease.

Given the breadth of "neurodegenerative diseases", the absence of working examples and the formidable challenge of treating neurodegenerative diseases with TNF- α -specific inhibitors, including the treating neurodegenerative diseases with the claimed TNF- α -specific antibodies,

there appears to be insufficient guidance and direction as to how to how to practice the breadth of treating "neurodegenerative diseases" to be treated by administering "a TNF- α -inhibiting amount of an TNF- α antibody" to treat inflammation associated with "any neurodegenerative disease".

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The specification does <u>not</u> teach how to extrapolate data obtained from in vitro and in vivo inhibition of certain immune or inflammatory responses with anti-TNF-α antibodies to the development of effective in vivo human therapeutic methods to treat viral infections, commensurate in scope with the claimed invention. Therefore, reliance upon the anti-inflammatory properties of anti-TNF-α antibodies does <u>not</u> provide for the skilled artisan to predict that treatment of viral infections or the scope of viral infections encompassed by the claimed methods would be predictable.

The scope of the claims must bear a reasonable correlation with the scope of enablement. See <u>In re Fisher</u>, 166 USPQ 18 24 (CCPA 1970).

In view of the lack of predictability of the art to which the invention pertains the lack of established clinical protocols for effective neurodegenerative therapies with anti-TNF- antagonist / antibody-based therapies, undue experimentation would be required to practice the claimed methods with a reasonable expectation of success, absent a specific and detailed description in applicant's specification of how to effectively practice the claimed methods and absent working examples providing evidence which is reasonably predictive that the claimed methods are effective for inhibiting neurodegenerative diseases, broadly encompassed by the claimed invention.

Applicant is invited to provide objective evidence to support either the bread of "neurodegenerative diseases" targeted by the claimed invention, including the elected invention drawn to "ALS", and to amend the claims to recite those neurodegenerative diseases accordingly.

11. It is noted that treating "ALS" as the elected neurodegenerative species appears to be free of the prior art.

As addressed above, treating "ALS" and the breadth of "neurodegenerative diseases" is subject to the enablement rejection under 35 USC 112, first paragraph, above.

The prior art has been extended to the treatment of "multiple sclerosis" as a species that reads on treating "neurodegenerative diseases". Also, see Neurodegenerative Diseases on page 58 of the instant specification for the instant disclosure of "multiple sclerosis".

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12. Claims 1-7, 15-16 and 18-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Le et al. (WO 92/16553) in view of Beck et al. (Acta Neurol. Scand. 78: 318-323,1988), Chofflon et al. (Eur. Cytokine Netw. 3: 523-531, 1992) and Selmaj et al. (Ann Neurol 30: 694-700, 1991) and in further evidence in providing pain management as basic to management of treating neurologic disorders, as evidenced by The Merck Manual Of Diagnosis And Therapy, Sixteenth Edition, 1992 (edited by Berkow et al., Merck Research Laboratories, Merck & Co., Rahway, NJ, 1992; see pages 1407-1409) at the time the invention was made.

Le et al. teach the generation of recombinant cA2-specific anti-TNF-α antibodies, fragments and derivatives (e.g. see pages 9-11; page 13, paragraph 1 and Examples on pages 45-74) of the instant invention (see entire document, including Description of the Prior art, Summary of the Invention, Detailed Description of the Preferred Embodiments and Claims)., which are useful for treating subject having a pathology or condition associated with levels of substance reactive with an anti-TNF antibody, in particular for those subjects having excess levels of TNF, including targeting chronic immune or autoimmune pathologies (e.g. see page 34, paragraph 1)

Le et al. differs from the claimed invention by not disclosing multiple sclerosis, including that role of TNF in multiple sclerosis, including the demyelination associated with TNF.

Beck et al. teach that TNF triggers exacerbation of clinical events in multiple sclerosis patients and this cytokine plays a role in maintaining disease in chronic progressive and invalidating forms (See entire document, including Abstract). Beck et al. also teaches that experimental mice with cerebral manifestations can be protected with anti- TNF-α antibodies (e.g. see pages 322-323, overlapping paragraph).

Chofflon et al. (Eur. Cytokine Netw. 3:523-531, 1992) expands the finding of Beck et al. (e.g. see paragraph 1 of the Discussion on page 528) in that the clinical relapse in multiple sclerosis patients was associated with increased TNF- α (see entire document, including Abstract and Discussion). Also, Chofflon et al. teach that immunosuppressive drugs on cytokine secretion could make in possible that earlier treatment would reduce the extent of tissue lesions, slow down the evolution of the disease and attenuate the disability (e.g. see page 529, column 1, paragraph 5 – column 6, paragraph 1).

Selmaj et al. teach the use of anti-TNF antibodies to inhibit effectively the development of EAE, an inflammatory demyelinating disease of the CNS that is used as a model of human demyelinating disease multiple sclerosis (see Introduction on page 694 concerning the EAE model) (see entire document, including Abstract). Selmaj et al. conclude that anti-TNF therapy appeared to operate at a step subsequent to the generation of autoimmune cells, which may be particularly relevant to the development of new therapeutic strategies for diseases like multiple sclerosis which can alleviate lesion progression (see page 699, column 1, paragraph 1).

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With respect to the claimed recitation of "wherein the pain control agent is selected from the group consisting of paracentamol and dextropropoxyphene" and

given that pain management was basic to management of treating neurologic disorders, as evidenced by <u>The Merck Manual Of Diagnosis And Therapy, Sixteenth Edition</u>, 1992 (edited by Berkow et al., Merck Research Laboratories, Merck & Co., Rahway, NJ, 1992; see pages 1407-1409),

it was obvious that one of ordinary skill in the would have motivated to provide pain control, including the use of known paracentamol and dextropropoxyphene, in the management of various neurologic or neurodegenerative disorders/diseases as standard practices at the time the invention was made. It was obvious to use and/or substitute equivalents known for the same purpose, includintg the selection of known materials based upon it suitability or its intended use, which was pain control in the management of various disorders/diseases.

Therefore, one of ordinary skill in the art at the time the invention was made would have been motivated to include targeting the inflammatory / autoimmune disorder of multiple sclerosis with anti-TNF- α antibodies in order to diminish the deleterious effects of TNF- α in this disease, including the expectation of success of inhibiting demyelination, given the role of TNF- α in demyelination and the ability to neutralize the deleterious effects of TNF- α with anti-TNF- α antibodies, including the instant A2 / cA2 / infliximab anti TNF- α antibody specificity of the claimed invention. The claimed dosages and modes of administration including local and parental administration for the particular disease was obvious to the ordinary artisan at the time the invention was made in meeting the needs of the patient and the nature of the condition being treated as routine practice (also see pages 34-36 of Le et al.) From the teachings of the references, it was apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was prima facie obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

As noted above, applicant's assertions based upon priority of the instant claims have not been found persuasive.

13. It is noted that applicant has a number of copending applications in the instant family of applications with the use of the same A2 / cA2 / infliximab TNF-specific antibodies.

Again, given the history of a number of continuations-in-part, it is not readily apparent whether the claims were subject to restriction and whether the claims are subject to double patenting rejections.

Applicant is invited to clarify which applications should be subject to rejections under the judicially created doctrine of obviousness-type double patenting. Art Unit: 1644

14. Claims 1-7, 15-16 and 18-33 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,991,791 essentially for the reasons of record.

Although the recitation of the instant and patented claims differ, all of the instant and patented claims are drawn to the same or nearly the same cA2-specific TNF- α -specific antibodies having the same or nearly the same functional properties of neutralizing TNF- α -mediated activities in the treatment of neurodegenerative diseases. The patented claims anticipate or render obvious the instant methods of treating neurodegenerative diseases with anti-TNF- α antibodies. The differences in the recitation of dosages and modes of administration between the instant and pending claims were well known and practiced at the time the invention was made by the ordinary artisan to meet the needs of the patient and the nature of the targeted disease.

15. Claims 1-7, 15-16 and 18-33 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 4, 5, 7-10, 12, 14, 21, 23-24, 30, 35, 37 and 52-89 of copending USSN 10/227,488.

Although the recitation of the instant and patented claims differ, all of the instant and patented claims are drawn to the same or nearly the same A2-specific TNF- α -specific antibodies having the same or nearly the same functional properties of neutralizing TNF- α -mediated activities in the treatment of neurodegenerative diseases. The patented claims anticipate or render obvious the instant methods of treating neurodegenerative diseases with anti-TNF- α antibodies. The differences in the recitation of dosages and modes of administration between the instant and pending claims were well known and practiced at the time the invention was made by the ordinary artisan to meet the needs of the patient and the nature of the targeted disease.

This is a *provisional* obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

- 16. No claim is allowed.
- 17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Gambel whose telephone number is (571) 272-0844. The examiner can normally be reached Monday through Thursday from 7:30 am to 6:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841.

The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phillip Gambel, Ph.D., J.D.

Primary Examiner

Technology Center 1600

December 22, 2006